



FCC TEST REPORT

FCC ID: 2BQHE-JP-B311

Product	:	Thermal label printer, thermal barcode printer, thermal waybill label machine
Model Name	:	JP-B311,B311,GL-B311,B30,JP-B30,GL-B30,B311A,JP-B311A,GL-B311A,B310,JP-B310,GL-B310
Brand	:	N/A
Report No.	:	PTC25111124103E-FC03
Prepared for		
Guangdong Gilong Technology Co., Ltd.		
4-5F, Building A11, Haidi Fashion Meidu Industrial Park, Haifeng County, Shanwei, China		
Prepared by		
Precise Testing & Certification Co., Ltd.		
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Report No.: PTC25111124103E-FC03

TEST RESULT CERTIFICATION

Applicant's name : Guangdong Gilong Technology Co., Ltd.

Address : 4-5F, Building A11, Haidi Fashion Meidu Industrial Park, Haifeng County, Shanwei, China

Manufacture's name : Guangdong Gilong Technology Co., Ltd.

Address : 4-5F, Building A11, Haidi Fashion Meidu Industrial Park, Haifeng County, Shanwei, China

Product name : Thermal label printer, thermal barcode printer, thermal waybill label machine

Model name : JP-B311,B311,GL-B311,B30,JP-B30,GL-B30,B311A,JP-B311A,GL-B311A,B310,JP-B310,GL-B310

Test procedure : FCC CFR47 Part 1.1307(b)(1)

Test Date : November 28, 2025 to December 26, 2025

Date of Issue : December 26, 2025

Test Result : PASS

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Test Engineer:

A handwritten signature in black ink, appearing to read 'Jack Zhou'.

Jack Zhou / Engineer

Technical Manager:

A handwritten signature in black ink, appearing to read 'Simon Pu'.

Simon Pu / Manager



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2 Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	15.247 (i)	PASS
Remark:		
N/A: Not Applicable		



3 General Information

3.1 General Description of E.U.T.

Product Name	:	Thermal label printer, thermal barcode printer, thermal waybill label machine
Model Name	:	JP-B311
Additional model	:	B20, JP-B311, GL-B20, B21, JP-B21, GL-B21, B22, JP-B22, GL-B22, B20A, JP-B311A, GL-B20A, B200, JP-B3110, GL-B200
Specification	:	Bluetooth BDR; Bluetooth BLE
Operation Frequency	:	2402-2480MHz for BT
Number of Channel	:	79 channels for BDR 40 channels For DTS
Type of Modulation	:	GFSK For DSS GFSK For DTS
Antenna installation	:	PCB antenna
Antenna Gain	:	4.85 dBi
Power supply	:	AC ADAPTER MODEL: ZL-AD048WD2402000 INPUT: 100-240V~ 50/60Hz 1.5A OUTPUT: 24.0V== 2.0A 48.0W
Hardware Version	:	N/A
Software Version	:	N/A
Model difference	:	The only difference between the models is the model name, which is used to distinguish different sales customers or sales regions. Everything else is exactly the same, and the difference does not affect the product's radio frequency characteristics.



4 RF Exposure

Test Requirement : FCC Part 1.1307(b)(1)

Evaluation Method : KDB 447498 D01 General RF Exposure Guidance v06

4.1 Requirements

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

4.2 The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz ; *Plane-wave equivalent power density



4.3 MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } P_d \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$P_d = \frac{30 \times P \times G}{377 \times d^2} \theta \varphi$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

4.4 Test Result

Mode	Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Tune up tolerance (dBm)	Max Tune Up Power (mW)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)	Result
2402(DH5)	4.85	3.05	-4.46	-4.46 ± 1	0.450816705	0.000273981	1	Pass
2402(BLE_1M)	4.85	3.05	-4.32	-4.32 ± 1	0.465586094	0.000282957	1	Pass

Conclusion:

1. Calculate in the worst-case mode.
2. Max. Tune Up Power is declared by manufacturer, and used to calculate.

*******THE END REPORT*******